

Abstract

A purpose of the present invention is to provide a method of enabling denitration of an exhaust gas effectively at 450° to 600°C and catalysts to be used for the method. A first catalyst comprises a composite oxide composed of titanium oxide and at least one of tungsten oxide, molybdenum oxide and boron oxide and having solid acid strength (Ho) of -11.93 or lower. A second catalyst is a high-temperature denitration catalyst which comprises zirconium oxide and SO_3 or SO_4^{2-} , has solid acid strength (Ho) of -11.93 or lower and is used at a reaction temperature of 450° to 800°C. A third catalyst is a high-temperature denitration catalyst wherein at least one of tungsten oxide, molybdenum oxide and boron oxide is supported on a carrier comprising zirconium oxide and SO_3 or SO_4^{2-} and having solid acid strength (Ho) of -11.93 or lower and which is used at a reaction temperature of 450° to 800°C.